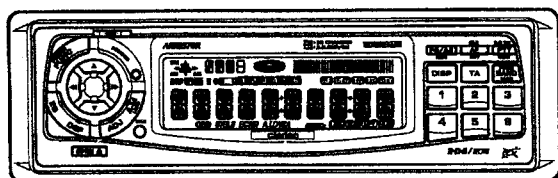


Service Manual



ARX8370R

RDS-EON/FM-MPX/MW/LW Radio
Cassette Combination With
CD Changer Control

Model **ARX8370R**
(PE-1545E-A/Black panel)

Model **ARX8370RW**
(PE-1545E-B/Grained panel)

SPECIFICATIONS

Radio section

Tuning system: PLL synthesizer tuner
Receiving frequencies:
FM 87.5MHz to 108MHz
MW 531kHz to 1,602kHz
LW 153kHz to 279kHz

Tape deck section

Cassette type: Compact audio cassette
Wow & flutter: 0.06%(WRMS)
Frequency response: 20Hz to 20kHz(Metal)
Signal to noise ratio: Metal:58dB
Dolby B NR:67dB
Dolby C NR:74dB

General

Power supply voltage: 14V DC(10.8 to 15.6V allowable),
negative ground
Power consumption: Less than 3A
Auto antenna rated current:
500mA or less
Weight
Main unit: 1.7kg
Remote control unit: 20g(including battery)
Dimensions
Main unit: 178(W)×50(H)×155(D)mm
Remote control unit: 40(W)×6.5(H)×86(D)mm

- ※ Dolby noise reduction manufactured under license from Dolby Laboratories Licensing Corporation.
- ※ "DOLBY" and the double-D symbol are trademarks of Dolby Laboratories Licensing Corporation.
- ※ Specifications and design are subject to change without notice for further improvement.

COMPONENTS

PE-1545E-A / PE-1545E-B

Main unit		1
Remote controller	RCB-114-300	1
Battery(CR2025BC)		1
Universal mounting bracket	300-9035-1	1
DCP case	335-5331-0	1
Outer escutcheon		
(ARX8370R)	940-7781-0	1
(ARX8370RW)	940-7781-2	1
Parts bag		
Hook plate	330-8216-1	2
Cord clamp	335-0833-1	1
Rubber cap	345-3653-1	1
Screw	716-0726-1	1

■ To engineers in charge of repair or inspection of our products.

Before repair or inspection, make sure to follow the instructions so that customers and Engineers in charge of repair or inspection can avoid suffering any risk or injury.

1. Use specified parts.

The system uses parts with special safety features against fire and voltage. Use only parts with equivalent characteristics when replacing them.

The use of unspecified parts shall be regarded as remodeling for which we shall not be liable. The onus of product liability (PL) shall not be our responsibility in cases where an accident or failure is as a result of unspecified parts being used.

2. Place the parts and wiring back in their original positions after replacement or re-wiring.

For proper circuit construction, use of insulation tubes, bonding, gaps to PWB, etc., is involved. The wiring connection and routing to the PWB are specially planned using clamps to keep away from heated and high voltage parts. Ensure that they are placed back in their original positions after repair or inspection. If extended damage is caused due to negligence during repair, the legal responsibility shall be with the repairing company.

3. Check for safety after repair.

Check that the screws, parts and wires are put back securely in their original position after repair. Ensure for safety reasons there is no possibility of secondary

problems around the repaired spots.

If extended damage is caused due to negligence of repair, the legal responsibility shall be with the repairing company.

4. Caution in removal and making wiring connection to the parts for the automobile.

Disconnect the battery terminal after turning the ignition key off. If wrong wiring connections are made with the battery connected, a short circuit and/or fire may occur. If extensive damage is caused due to negligence of repair, the legal responsibility shall be with the repairing company.

5. Cautions regarding chips.

Do not reuse removed chips even when no abnormality is observed in their appearance. Always replace them with new ones. (The chip parts include resistors, capacitors, diodes, transistors, etc). The negative pole of tantalum capacitors is highly susceptible to heat, so use special care when replacing them and check the operation afterwards.

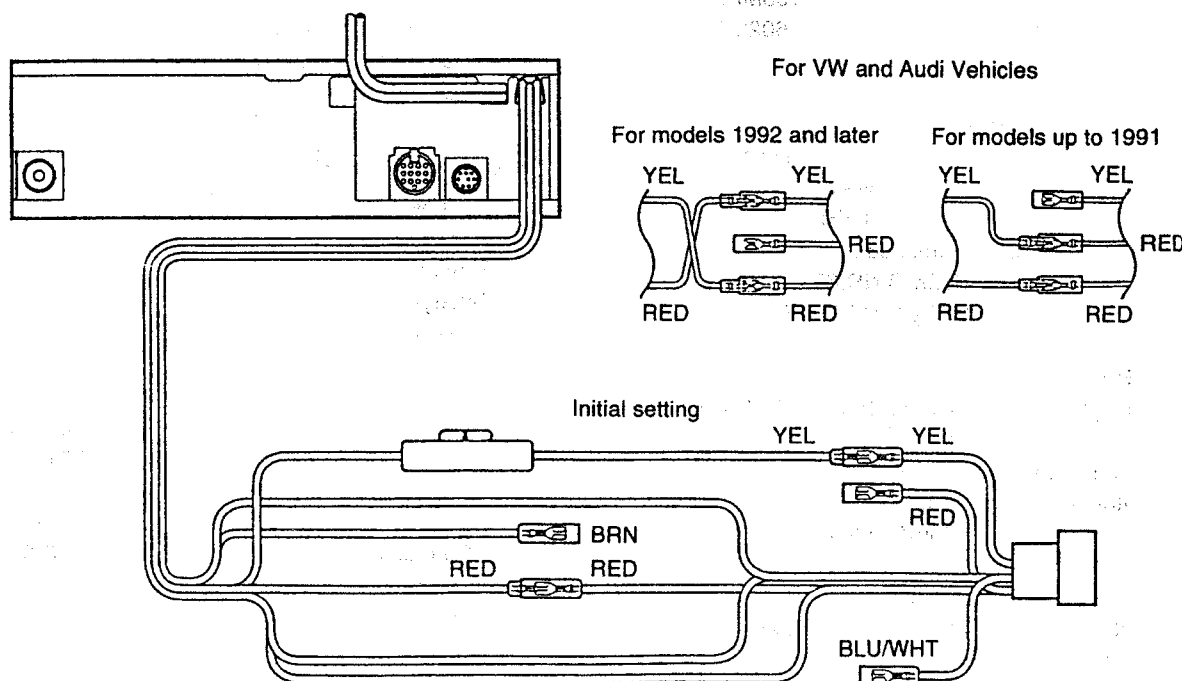
6. Cautions in handling flexible PWB

Before working with a soldering iron, make sure that the iron tip temperature is around 270°C. Take care not to apply the iron tip repeatedly (more than three times) to the same patterns. Also take care not to apply the tip with force.

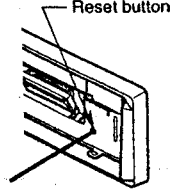
7. Turn the unit OFF during disassembly and parts replacement. Recheck all work before you apply power to the unit.

■ WIRE CONNECTIONS

※ For settings, refer to the "Installation/Wire Connection Guide".



■ TROUBLESHOOTING

Problem	Cause	Solution
Power does not turn on. (No sound is produced.)	Fuse is blown.	Replace with a fuse of the same amperage.
	Incorrect wiring.	Wire properly.
Sound quality is poor.	Playback head is dirty.	Use a cleaning tape, etc., to clean the head.
	DOLBY NR button is not pressed.	When listening to a tape recorded with Dolby NR, press the DOLBY NR button and select B NR or C NR.
Nothing happens when buttons are pressed. Display is not accurate.	Microprocessor has malfunctioned due to noise, etc.	Turn off the power, then press the DCP release button and remove the DCP. Press the reset button for about 2 seconds with a thin rod. 
	DCP or main unit connectors are dirty.	Wipe the dirt off with a soft cloth moistened with cleaning alcohol.
DSP or equalizer does not operate.	Microprocessor has malfunctioned due to noise, etc.	Press Direct button 1 (for more than 2 seconds) while holding in the DSP button, then turn the power back on.

■ ERROR DISPLAYS

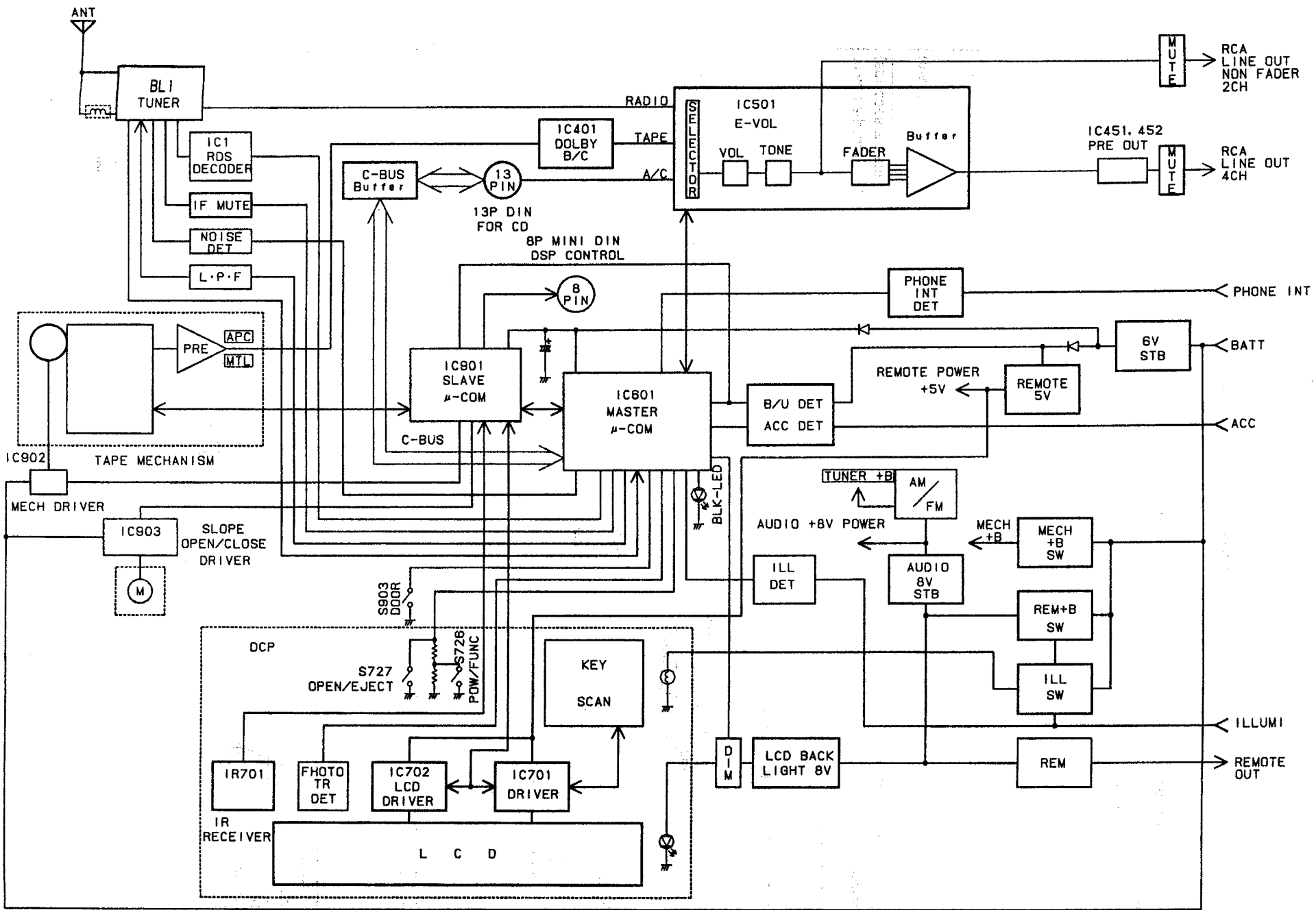
If an error occurs, one of the following displays is displayed.
Take the measures described below to eliminate the problem.

Error Display	Cause	Measure
TAPE ER1	Tape cannot be played due to defective tape such as cut tape.	Eject the tape then replace it with a new one.
TAPE ER2	Tape is caught and cannot be played.	Remove the caught or wound tape.
TAPE ER4	Tape mode cannot be detected.	This is a failure of tape mechanism.
TAPE ER8	Tape is caught and cannot be ejected.	Eliminate the reason for which the tape is caught.
CDCH ER2	A CD inside the CD changer is not loaded.	This is a failure of CD changer's mechanism.
CDCH ER3	A CD inside the CD changer cannot be played due to scratches, etc.	Replace with a non-scratched, non-warped disc.
CDCH ER6	A CD inside the CD changer cannot be played because it is loaded upside-down.	Eject the disc then reload it properly.
EQ ER99	Communication error between main unit and expanded DSP/EQ.	Connect the expanded DSP/EQ connecting cable securely.

If an error display other than the ones described above appears, press the reset button.

■ ADJUSTMENTS

Item	Procedure	Measuring instrument
FM S-meter	1. Input the 98.1MHz/30dB μ (400Hz-MOD 30%) signal. 2. Adjust the output of TP1(SM) to $2.4 \pm 0.1V$ by VR1.	SSG AC-voltmeter
FM SD	1. Input the 98.1MHz/22dB μ (400Hz-MOD 30%) signal. 2. Adjust the output of TP2(SD) to just high by VR2.	SSG OSC
Dolby level	1. Playback a Dolby level test tape (400Hz-200nWb/m), and connect the AC-voltmeter to TP401(L)/TP402(R). 2. Adjust the output to $388mV + 1.5/-0.5dB$ by VR401(L)/VR402(R). (Dolby switch: OFF)	AC-voltmeter Dolby level tape
Tape speed	1. Playback a Wow & flutter tape, and adjust the line output to $3000 \pm 45Hz$ by motor speed VR of power motor.	Wow & flutter tape Frequency counter



EXPLANATION OF IC

■μPD78058FGC-044-3B9 052-3330-00 System Controller
(Slave micro computer)

Outward Form
80 pins, plastic QFP

Terminal Description

No.	Symbol	I/O	Function
1	N.C.	-	Not in use
2	AUTO CLOSE	I	For "H": Auto close function available
3	S/A	I	For Hi, select type S' where slope console is controlled. For Low, select type A where slope console is not controlled.
4	AVSS	-	GND
5	N.C.	-	Not in use
6	N.C.	-	Not in use
7	AVREF1	I	Standard voltage input for A/D converter
8	B.B.RxD	I	Communication line with B.B. DSP
9	B.B.TxD	O	
10	N.C.	-	Not in use
11	LCD SI	I	Serial data communication line with LCD drive IC
12	LCD SO	O	
13	LCD SCK	O	
14	LCD CE	O	
15	MAIN REQ	I	Serial data communication line with master computer
16	MAIN SI	I	
17	MAIN SO	I	
18	MAIN SCK	I	
19	MAIN BUSY	O	
20	N.C.	-	Not in use
21	N.C.	-	
22	N.C.	-	
23	N.C.	-	
24	N.C.	-	
26	DCP 5V	O	DCP: Vdd power supply ON signal output terminal
27	N.C.	-	Not in use
28	N.C.	-	
29	N.C.	-	
30	N.C.	-	
31	SUB W VOL1	O	Sub woofer level setting signal output
32	SUB W VOL2	O	
33	VSS	-	
34	N.C.	-	
35	N.C.	-	Not in use
36	N-FAD/SBW	O	Non fader/sub woofer switch output terminal Outputs "H" for woofer
37	DOLBY B/C	O	Outputs "L" for Dolby B, "H" for Dolby C
38	DOLBY ON	O	Outputs "H" for Dolby ON
39	SLAVE MUTE	O	Outputs "L" when applying mute
40	FWD/REV	O	Outputs "L" in forward. Output "H" in reverse
41	METAL ON	O	Outputs "H" in EQ=70μS, outputs "L" in EQ=120μS
42	APC DET	I	Inputs "H" in playing unrecorded part
43	APC SENC	O	Sensitivity switching terminal for APC circuit. Switch sensitivity in PLAY or in FF Play mode: Low O/P FF/REW mode: Hi O/P
44	TAPE IN	I	The terminal to detect a cassette pack insertion in EJECT mode. Loading starts when this terminal turns from "L" to "H".
45	REEL PLUSE	I	In PLAY/FF/REW mode, reel rotation pulse signal is input
46	BIT 2	I	Mechanism mode detection input
47	BIT 1	I	
48	BIT 3	I	

No.	Symbol	I/O	Function
49	METAL SW	I	Metal tape detection input. Input "L" for normal tape.
50	P-2	O	Motor control output
51	P-1	O	
52	MECH MOTOR	O	Control terminal for main motor. Outputs Hi only in PLAY/FF/REW. Outputs Low in other modes and during mode switching.
53	MECH ON	O	Control terminal to provide power supply for cassette mechanism in TAPE mode. Outputs "H" in TAPE mode.
54	OPEN BIAS	O	Outputs Hi in slave micro computer in motion. It supplies bias to OPEN/CLOSE detection switch.
55	SLOPE MOTOR	O	Electrical power supply switching output terminal for slope.
56	MOTOR+	O	Slope motor control output
57	MOTOR-	O	
58	OPEN	I	Slope mode detection input
59	CLOSE	I	
60	RESET	I	Micro computer hardware stops when this terminal turns "L"
61	REMOCON	I	Remote control signal input (pulse)
62	B/U DET	I	When this terminal is Low, micro computer detects B/U OFF, then stop oscillating by turning micro computer into STOP mode.
63	5V REM IN	I	When this terminal turns from Low to Hi, it detects ACC+5V is ON and turns from motion mode to STOP mode.
64	B.B. REQ	I	Insertion signal input terminal from B.B. DSP
65	TAPE DOOR	I	Inputs "L" when cassette tape is in the insertion slit
66	LCD DET IN	I	LCD driver. Input terminal for data transfer permission signal
67	GND	-	GND
68	VDD	-	Electrical power supply terminal
69	X2	-	Cellular lock connecting terminal for main system clock oscillation
70	X1	I	
71	IC	-	Connected to GND
72	XT2	-	Not in use
73	XT1	I	
74	AVDD	-	Applied voltage terminal for analog power supply for A/D converter
75	AVREF0	-	Standard applied voltage terminal for A/D converter
76	N.C.	-	Not in use
77	N.C.	-	
80	N.C.	-	

■μPD178018GC-513-3B9 052-1310-00 Master Micro Computer

Outward Form
80 pins, plastic QFP

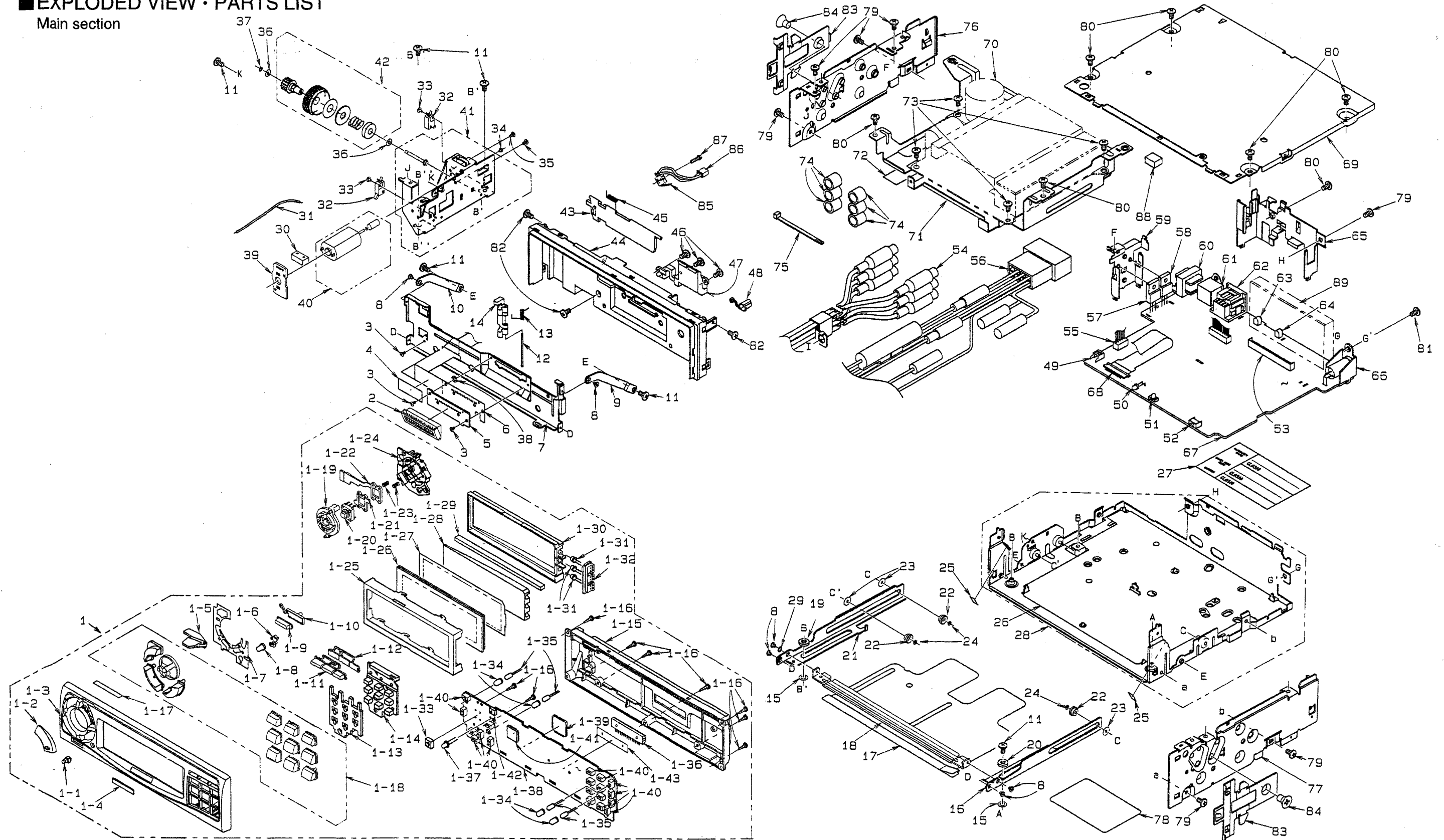
Terminal Description

No.	Symbol	I/O	Function
1	N.C.	I	Not in use
2	PHOTO TR DET	I	Light quantity detection input terminal for auto dimmer
3	KEY A/D	I	Input terminal for detecting key pushed out of OPEN/DCP/FUNCTION
4	RDS S-METER	I	Detection terminal for RDS S-METER
5	RDS NOISE	I	Noise level detection terminal for RDS
6	N.C.	I	Not in use
7	SUB SI	I	Serial communication line with slave micro computer
8	SUB SO	O	
9	SUB SCK	I/O	
10	SUB REQ	O	
11	SUB BUSY	I	
12	C-BUS SI	I	C-BUS data communication line
13	C-BUS SO	O	
14	C-BUS SCK	O	
15	PULSE DIMMER	O	Output terminal for pulse dimmer blue LED ON signal
16	SD OPEN	O	Outputs Hi when 38 pin is Lo.
17	FM LOCAL	O	Outputs Low in LOCAL.
18	SD UP	O	Outputs Lo during RDS follow-up motion.
19	AM LOCAL	O	Outputs Low in LOCAL.
20	REM OUT SAV	O	Outputs cancellation of latch in REM protection circuit.
21	GND PORT	-	GND
22	VDD PORT	-	Power supply terminal
23	SOFT MUTE	O	Output terminal for switching an FM SOFT MUTE constant
24	SYS MUTE	O	Output terminal for system mute signal
25	IF REQ	O	Output terminal for IF signal request.
26	RDS MUTE	O	Output terminal for RDS IF MUTE signal.
27	RDS DISCHG	O	RDS output terminal for discharging the voltage detected by RDS NOISE (5 pin)
28	AM IFC	I	AM IF count signal input terminal
29	FM IFC	I	FM IF count signal input terminal
30	VDD PLL	-	PLL power supply terminal
31	FM IN	I	Input terminal for FM OSC.
32	AM IN	I	Input terminal for AM OSC.
33	GND	-	GND
34	EO 0	O	AM error output
35	EO 1	O	FM error output
36	IC	-	GND
37	AM SD	I	Detection terminal for AM SD. Judges SD ON by Hi
38	FM SD	I	Detection terminal for FM SD. Judges SD ON by Hi
39	FM ST	I	Detecting terminal for FM stereo
40	RDS DATA	I	Inputs data from RDS decoder
41	ILLUMI DET	I	Illumination signal detection terminal
42	+B REM	O	Outputs Hi by power ON, supplying +B power
43	EVOL CLK	O	Serial data communication line to electronic volume IC
44	EVOL DATA	O	
45	RDS +B REM	O	Outputs Lo without AM.
46	FM ON	O	Output terminal for FM ON signal
47	AM ON	O	Output terminal for AM ON signal

No.	Symbol	I/O	Function
48	5V REM	O	Outputs signal for 5V power ON around micro computer
49	C-BUS SRQ	I	Request signal input terminal reading status from slave microcomputer. When this terminal turns Low it detects the status reading requested
50	N.C.	O	Not in use
51	H/L DIMMER	O	High/Low dimmer signal output.
52	N.C.	I	Not in use
53	PLL DI	I	PLL data communication terminal with PLL IC
54	PLL SCK	O	
55	PLL DO	O	
56	PLL CE	O	
57	N.C.	I	Not in use
58	N.C.	I	Not in use
59	N.C.	I	Not in use
60	BLINKING LED	O	LED flashing output signal
61	N.C.	I	Not in use
62	LCD DET OUT	I	Outputs Hi when LCD data transfer is permitted.
63	N.C.	I	Not in use
64	N.C.	I	Not in use
65	N.C.	I	Not in use
66	N.C.	I	Not in use
67	RDS CLK	I	Clock signal input from RDS decoder
68	B/U DET	I	When this terminal turns Low, micro computer detects the B/U OFF and turns micro computer to STOP mode, stopping oscillation
69	ACC DET	I	ON/OFF detection terminal for ACC power supply
70	DCP DET	I	DCP removal/installation detection terminal Hi when DCP removed; Low when DCP installed
71	KEY INT	I	Key insertion input terminal Low when OPEN key or FUNC key pushed When this terminal turns Low, key A/D terminal detects the key pushed
72	GND	-	GND
73	PHONE INT	I	Input terminal for phone interrupt/cellular
74	REG CPU	-	Regulator terminal for CPU power supply. Connected to pass con against noise
75	GND	-	GND
76	X2	-	Connecting terminal for oscillating crystal for main system clock
77	X1	I	
78	REG OSC	-	Power supply regulator terminal for oscillator. Connected to pass con against noise
79	VDD	-	Power supply terminal
80	RESET	I	Micro computer will stop by turning this terminal to "Low"

EXPLODED VIEW • PARTS LIST

Main section



NO.	PART NO.	DESCRIPTION	Q'TY	NO.	PART NO.	DESCRIPTION	Q'TY
1	940-1822A	DCP ASS'Y(ARX8370R)	1	1-6	335-5257-00	BUTTON HOLDER	1
	940-1824A	DCP ASS'Y(ARX8370RW)	1	1-7	347-5432-00	FILM(L)	1
1-1	335-5256-00	INDICATOR LENS	1	1-8	382-4386-00	BUTTON(TITLE)	1
1-2	335-5347-00	IR RECEIVER	1	1-9	382-4511-00	BUTTON(OPEN)	1
1-3	370-5664-00	ESCUTCHEON(ARX8370R)	1	1-10	335-5348-00	BUTTON HOLDER(OPEN)	1
	370-5664-02	ESCUTCHEON(ARX8370RW)	1	1-11	382-4514-00	BUTTON(PS/AF/PTY)	1
1-4	378-0134-00	BADGE	1	1-12	335-5258-00	BUTTON HOLDER(PS/AF/PTY)	1
1-5	382-4513-00	BUTTON(RELEASE)	1	1-13	345-7863-00	SPONGE(R)	1

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ARX8370R/RW

NO.	PART NO.	DESCRIPTION	Q'TY	NO.	PART NO.	DESCRIPTION	Q'TY
1-14	335-5259-00	ILLUMI PLATE(R)	1	1-22	039-0857-00	JOG SWITCH PWB	1
1-15	335-5246-00	REAR COVER	1	1-23	750-3248-00	SPRING(JOG)	2
1-16	716-0872-11	SCREW	9	1-24	335-5277-00	ILLUMI PLATE	1
1-17	347-5444-00	SHADE	1	1-25	331-1977-00	LCD COVER	1
1-18	947-0429-00	BUTTON ASS'Y	1	1-26	379-1079-41	INDICATOR	1
1-19	335-5275-00	JOG SWITCH HOLDER	1	1-27	347-5408-00	CCD FILM	1
1-20	013-9901-00	JOG SWITCH	1	1-28	335-5262-00	LCD ILLUMI PLATE	1
1-21	335-5276-00	SPACER	1	1-29	345-7864-00	RUBBER CONNECTOR	1

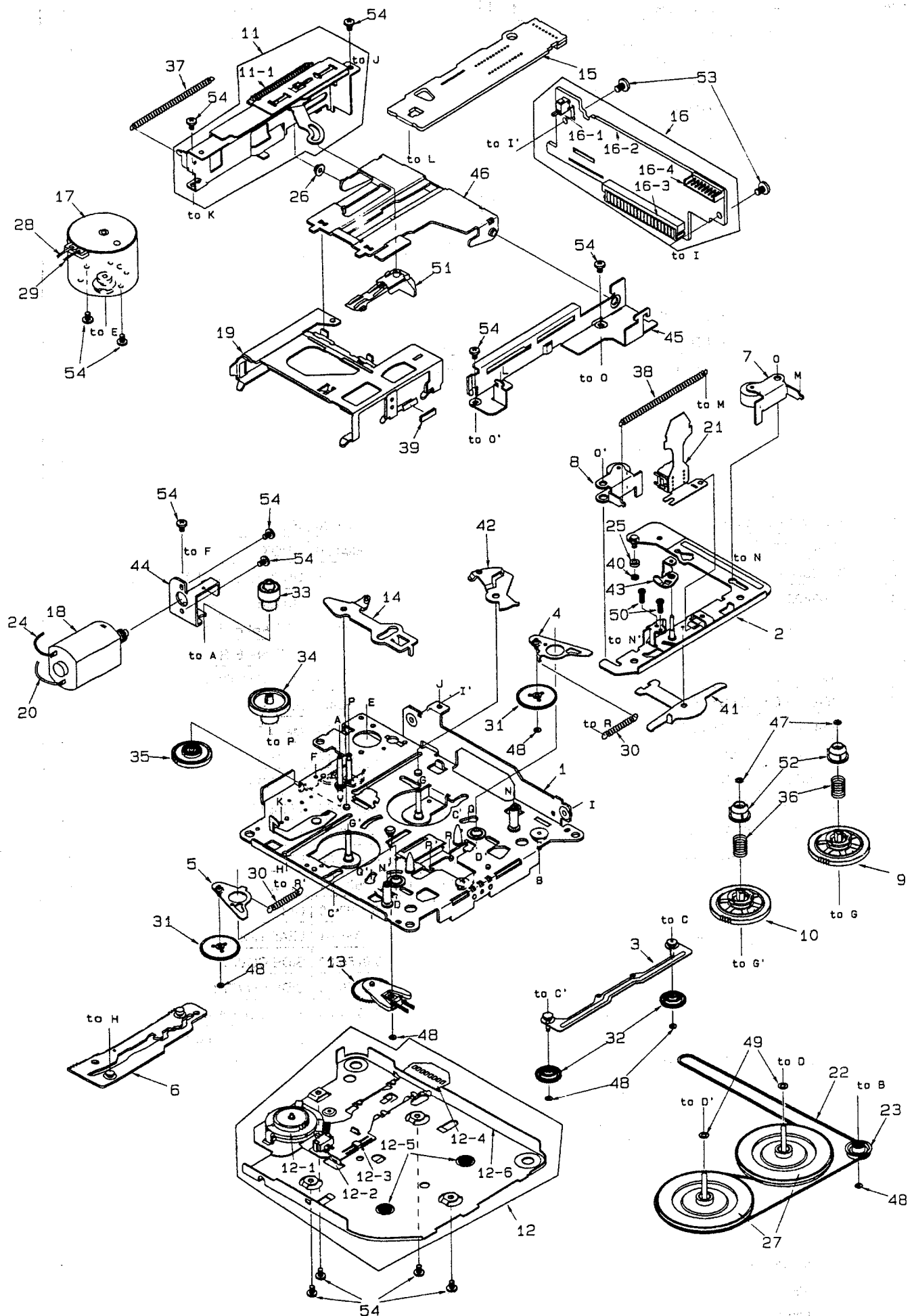
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ARX8370R/RW

NO.	PART NO.	DESCRIPTION	Q'TY
1-30	335-5260-00	LCD HOLDER	1
1-31	001-7030-00	DIODE	3
1-32	335-5263-00	LED HOLDER	1
1-33	013-6006-00	SWITCH(PUSH)	1
1-34	345-4441-37	LAMP CAP	4
1-35	017-0444-00	PILOT LAMP	4
1-36	076-0535-00	PLUG(DCP 15P)	1
1-37	060-0150-00	PHOTO TR	1
1-38	039-0916-00	SWITCH PWB	1
1-39	051-6013-00	IC(LCD DRIVER)	1
1-40	013-6302-01	SWITCH	19
1-41	051-6022-00	IC(LCD DRIVER)	1
1-42	060-4008-00	IR RECEIVER	1
1-43	347-5482-00	SPACER	1
2	074-1145-00	OUTLET SOCKET(DCP)	1
3	738-1725-17	SCREW(M1.7X2.5)	3
4	291-0080-00	STICKER(SEcurity)	1
5	039-0914-00	CONNECTOR PWB	1
6	039-0807-00	FLEXIBLE PWB(SLOPE)	1
7	331-2028-00	DCP HOLDER	1
8	716-1715-02	SCREW(M2)	6
9	331-0577-00	LEVER(R)	1
10	331-0578-00	LEVER(L)	1
11	714-2605-81	MACHINE SCREW	6
12	341-1633-00	SHADE(HOOK)	1
13	750-3251-00	SPRING	1
14	335-5349-00	HOOK	1
15	746-0903-00	WASHER	2
16	683-0064-00	SLIDE PLATE(R)	1
17	347-5463-00	INSULATOR	1
18	331-2031-00	SLIDE ARM	1
19	340-4368-00	SPACER(L)	1
20	340-4369-00	SPACER(R)	1
21	683-0063-00	SLIDE PLATE(L)	1
22	610-0366-00	ROLLER	3
23	746-0902-00	WASHER	3
24	746-0901-00	WASHER	3
25	347-5470-00	SPACER	2
26	347-5464-00	INSULATOR	1
27	286-8732-00	ID CARD LABEL(ARX8370R)	1
	286-8752-00	ID CARD LABEL(ARX8370RW)	1
28	946-0061-00	LOWER CASE ASS'Y	1
29	347-5471-00	SPACER(LEVER ADJ)	1
30	076-0349-04	PLUG	1
31	801-0610-64	VINYL COAT WIRE	1
32	013-3757-00	SWITCH(OPEN/CLOSE)	2
33	716-0670-01	SCREW	2
34	621-0034-01	THRUST HOLDER	1
35	716-0882-00	MOTOR SCREW	2
36	745-0646-00	WASHER	2
37	743-1500-10	E-RING	1
38	746-0888-01	SPACER	1

NO.	PART NO.	DESCRIPTION	Q'TY
39	039-0915-00	MOTOR PWB	1
40	948-0355-01	MOTOR ASS'Y	1
41	946-0062-00	GEAR BOX ASS'Y	1
42	960-4409-00	LOAD GEAR ASS'Y	1
43	320-0525-14	DUSTPROOF COVER	1
44	370-5667-00	INNER ESCUTCHEON	1
45	750-2626-00	SPRING	1
46	716-1764-00	PAD SCREW	3
47	335-5351-00	ILLUMI PLATE	1
48	382-4515-00	BUTTON(RESET)	1
49	076-0313-02	PLUG(DOOR)	1
50	001-0412-17	DIODE(BLINK)	1
51	017-0433-07	PILOT LAMP	1
52	013-6100-00	SWITCH	1
53	076-0433-20	PLUG	1
54	855-5403-00	RCA PIN CORD(6CH)	1
55	854-4297-00	EXTENSION LEAD(MOTOR)	1
56	854-6319-00	EXTENSION LEAD(ISO)	1
57	103-2012-00	TRANSISTOR(2SD2012)	1
58	101-0941-00	TRANSISTOR(2SB941)	1
59	313-1681-00	HEAT SINK	1
60	009-9008-80	CHOKE	1
61	074-1081-08	OUTLET SOCKET(MINI 8P)	1
62	074-1126-10	OUTLET SOCKET(13P)	1
63	012-4863-13	VARIABLE RESISTOR	1
64	012-4863-06	VARIABLE RESISTOR	1
65	331-2029-00	CONNECTOR HOLDER	1
66	092-9000-01	ANT RECEPTACLE	1
67	039-0917-00	MAIN PWB	1
68	074-1048-17	OUTLET SOCKET	1
69	303-0460-00	UPPER COVER	1
70	930-0738-83	TAPE MECHANISM	1
71	331-2027-00	MECH BRACKET	1
72	347-5472-00	INSULATOR	1
73	714-2605-81	MACHINE SCREW	4
74	345-3799-00	CAP	6
75	335-0833-01	LEAD HOLDER	1
76	305-0255-00	SIDE COVER(L)	1
77	305-2056-00	SIDE COVER(R)	1
78	286-8731-00	SETPLATE(ARX8370R)	1
	286-8750-00	SETPLATE(ARX8370RW)	1
79	731-2605-80	TAPTIGHT	7
80	731-3006-80	TAPTIGHT	7
81	714-3005-81	MACHINE SCREW	1
82	714-2005-89	MACHINE SCREW	3
83	750-2796-02	SPRING	2
84	714-5008-41	MACHINE SCREW	2
85	013-7103-00	SWITCH(PACK DET)	1
86	854-3298-00	EXTENSION LEAD(PACK SW)	1
87	716-0872-12	PAD SCREW	1
88	345-7017-00	SPACER	1
89	880-2081A	TUNER PACK	1

Tape mechanism section : 930-0738-83



NO.	PART NO.	DESCRIPTION	Q'TY	NO.	PART NO.	DESCRIPTION	Q'TY
1	960-4405-20	DECK PLATE ASS'Y	1	23	604-0046-00	TENSION PULLEY	1
2	960-4404-20	HEAD PLATE ASS'Y	1	24	816-2304-00	VINYL COAT WIRE(BLU)	1
3	960-4262-03	FF/REW-P-ASS'Y	1	25	610-0342-01	HEAD-P-ROLLER	1
4	960-4263-03	IDOLER-P-ASS'Y F	1	26	610-0343-00	GUIDE-A-ROLLER	1
5	960-4264-03	IDOLER-P-ASS'Y R	1	27	611-0091-03	FLYWHEEL	2
6	960-4266-20	MODE PLATE ASS'Y	1	28	802-4909-60	VINYL COAT WIRE(RED)	1
7	960-4269-05	ROLLER ASS'Y F	1	29	800-4909-60	VINYL COAT WIRE(BLK)	1
8	960-4270-05	ROLLER ASS'Y R	1	30	750-3148-00	IDOLER-P-SPRING	2
9	960-4348-02	REEL ASS'Y F	1	31	613-0285-02	IDOLER GEAR	2
10	960-4349-02	REEL ASS'Y R	1	32	613-0286-02	FF/REW GEAR	2
11	960-4389-03	EJECT SUB ASS'Y	1	33	613-0288-01	HELICAL GEAR	1
11-1	750-3020-01	SW-PLATE SPRING	1	34	613-0289-01	GEAR A	1
12	960-4338-07	BOTTOM SUB ASS'Y	1	35	613-0337-00	POWER GEAR	1
12-1	013-3951-11	SWITCH	1	36	750-2949-00	SLIDE SPRING	2
12-2	013-3953-01	SWITCH	1	37	750-2947-04	EJECT-P-SPRING	1
12-3	051-1776-00	IC	1	38	750-2946-02	PINCH SPRING	1
12-4	099-9926-01	FLEXIBLE PWB	1	39	746-0883-00	CLEANING PAD	1
12-5	746-0767-00	WASHER	2	40	746-0762-00	WASHER	1
12-6	960-4295-02	BOTTOM PLATE ASS'Y	1	41	630-2718-00	CHANGE LINK	1
13	960-4282-06	DETECT SUB ASS'Y	1	42	630-2598-05	EJECT LINK	1
14	960-4301-02	PLAY LINK ASS'Y	1	43	630-2600-01	ADJUST LINK	1
15	039-0053-00	SIDE PWB	1	44	630-2601-02	MOTOR PLATE	1
16	990-0709-01	REAR PWB ASS'Y	1	45	630-2626-04	PWB FRAME	1
16-1	013-3906-00	SWITCH	1	46	630-2642-01	GUIDE ARM	1
16-2	039-0368-00	REAR PWB	1	47	746-0761-00	WASHER(φ 1.6)	2
16-3	074-0978-20	OUTLET SOCKET	1	48	746-0724-00	WASHER(φ 1.1)	6
16-4	076-0353-08	PLUG	1	49	746-0624-00	WASHER(φ 2.1)	2
17	SMA-153-100	MAIN MOTOR ASS'Y	1	50	716-0833-10	AZIMUTH SCREW	2
18	SMA-131-100	POWER MOTOR ASS'Y	1	51	631-1992-02	PACK STOPPER	1
19	960-4406-02	PACK GUIDE ASS'Y	1	52	631-1993-01	SLIDE BUSH	2
20	816-2349-00	VINYL COAT WIRE(WHT)	1	53	716-0761-01	PWB SCREW(M2.6X4)	2
21	011-0307-28	HEAD	1	54	716-0484-00	SCREW(M2X2.5)	13
22	602-0118-00	BELT	1				

ELECTRICAL PARTS LIST

Note) Several different parts of the same reference number are alternative parts.
One of those parts is used in the set.

Main PWB section

REF No.	PART No.	DESCRIPTION	REF No.	PART No.	DESCRIPTION	REF No.	PART No.	DESCRIPTION
C 1	178-2232-78	0.022 μ F	C 462	183-4763-31	16V47 μ F	C 912	178-1022-78	1000pF
C 2	178-4732-78	0.047 μ F	C 463	178-1522-78	1500pF	CCT601	050-0122-02	100k Ω $\times$ 4
C 3	178-2232-78	0.022 μ F	C 464	183-1073-21	10V100 μ F	CCT901	050-0122-02	100k Ω $\times$ 4
C 5	178-1532-78	0.015 μ F	C 465	183-1073-21	10V100 μ F	D 1	001-0540-00	HVM187WK
C 6	178-1532-78	0.015 μ F	C 466	178-1522-78	1500pF	D 7	001-0516-00	MA111
C 7	183-2253-62	50V2.2 μ F	C 467	183-1063-31	16V10 μ F	D 8	001-0516-00	MA111
C 8	178-3312-78	330pF	C 468	183-1063-31	16V10 μ F	D 201	001-0330-00	1SS119
C 9	183-4763-11	6.3V47 μ F	C 469	183-1063-31	16V10 μ F	D 202	001-0516-00	MA111
C 10	178-5612-78	560pF	C 470	183-1063-31	16V10 μ F	D 203	001-0516-00	MA111
C 11	176-8201-00	82pF CH	C 471	183-1063-31	16V10 μ F	D 204	001-0516-00	MA111
C 12	176-4701-00	47pF CH	C 472	183-1063-31	16V10 μ F	D 205	001-0589-00	1SS145
C 13	178-1042-78	0.1 μ F	C 473	183-2263-31	16V22 μ F	D 206	001-0466-00	S5688B
C 16	178-2232-78	0.022 μ F	C 501	183-1063-31	16V10 μ F	D 207	001-0466-00	S5688B
C 18	178-5612-78	560pF	C 503	183-2243-61	50V0.22 μ F	D 208	001-0466-00	S5688B
C 19	178-5612-78	560pF	C 504	183-1063-31	16V10 μ F	D 209	001-0377-11	MA4030M
C 22	178-2232-78	0.022 μ F	C 505	176-1501-00	15pF CH	D 251	001-0377-46	MA4091L
C 23	178-1032-78	0.01 μ F	C 506	176-1811-00	180pF CH	D 451	001-0516-00	MA111
C 26	178-1222-78	1200pF	C 507	183-4753-51	35V4.7 μ F	D 452	001-0516-00	MA111
C 27	178-5622-78	5600pF	C 508	178-6832-78	0.068 μ F	D 453	001-0528-44	MA8082-M
C 28	178-1042-78	0.1 μ F	C 509	183-4753-51	35V4.7 μ F	D 501	001-0516-00	MA111
C 29	183-1053-61	50V1 μ F	C 510	183-2263-11	6.3V22 μ F	D 502	001-0516-00	MA111
C 30	176-1501-00	15pF CH	C 511	173-4721-11	4700pF	D 601	001-0516-00	MA111
C 31	176-1801-00	18pF CH	C 512	172-5631-11	0.056 μ F	D 602	001-0516-00	MA111
C 32	176-1011-00	100pF CH	C 513	173-4721-11	4700pF	D 603	001-0516-00	MA111
C 33	176-1011-00	100pF CH	C 514	183-1063-31	16V10 μ F	D 604	001-0516-00	MA111
C 34	176-1011-00	100pF CH	C 515	183-1063-31	16V10 μ F	D 605	001-0516-00	MA111
C 35	178-1032-78	0.01 μ F	C 517	183-2243-61	50V0.22 μ F	D 606	001-0516-00	MA111
C 36	183-4763-11	6.3V47 μ F	C 518	183-1063-31	16V10 μ F	D 607	001-0412-17	GC-3HD8
C 37	176-1011-00	100pF CH	C 519	176-1501-00	15pF CH	D 609	001-0516-00	MA111
C 38	178-2232-78	0.022 μ F	C 520	176-1811-00	180pF CH	D 610	001-0330-00	1SS119
C 39	178-2232-78	0.022 μ F	C 521	183-4753-51	35V4.7 μ F	D 611	001-0516-00	MA111
C 40	178-2242-78	0.22 μ F	C 522	178-6832-78	0.068 μ F	D 612	001-0516-00	MA111
C 41	178-2212-78	220pF	C 523	183-4753-51	35V4.7 μ F	D 901	001-0503-47	HZS9B3L
C 42	178-2212-78	220pF	C 524	183-2263-11	6.3V22 μ F	D 902	001-0466-00	S5688B
C 43	178-2212-78	220pF	C 525	173-4721-11	4700pF	D 903	001-0423-22	MA4075
C 44	178-1022-78	1000pF	C 526	172-5631-11	0.056 μ F	IC 1	051-1819-00	SAA6579T
C 201	183-1063-31	16V10 μ F	C 527	173-4721-11	4700pF	IC 2	051-0350-55	NJM4558M
C 202	183-1053-61	50V1 μ F	C 528	183-1063-31	16V10 μ F	IC 3	051-6201-00	LC72146M
C 203	184-4773-32	16V470 μ F	C 530	184-2273-22	10V220 μ F	IC 201	051-3201-00	AN77L06
C 204	172-1041-11	0.1 μ F	C 531	183-4753-51	35V4.7 μ F	IC 401	051-5200-90	CXA1332M
C 205	173-1021-11	1000pF	C 601	178-1022-78	1000pF	IC 451	051-5810-00	TDA8574T
C 206	172-4731-11	0.047 μ F	C 602	178-1022-78	1000pF	IC 452	051-5810-00	TDA8574T
C 207	183-4763-31	16V47 μ F	C 603	178-2232-78	0.022 μ F	IC 501	051-5008-00	M62419FP
C 208	178-6832-78	0.068 μ F	C 604	178-4732-78	0.047 μ F	IC 502	051-0350-55	NJM4558M
C 210	042-0452-02	16V100 μ F	C 607	178-4732-78	0.047 μ F	IC 601	052-1310-00	μ PD178018GC-513-3B9
C 251	183-4763-31	16V47 μ F	C 608	042-0458-06	10V 22 μ F	IC 602	051-0160-06	SN74LS07NS-L
C 252	183-1073-21	10V100 μ F	C 609	178-2232-78	0.022 μ F	IC 602	051-7400-06	HD74LS07FP
C 253	178-4732-78	0.047 μ F	C 610	178-2232-78	0.022 μ F	IC 603	051-0869-55	NJM2103M
C 401	183-4753-51	35V4.7 μ F	C 611	178-4732-78	0.047 μ F	IC 901	052-3330-00	μ PD78058FGC-044-3B9
C 402	183-4753-51	35V4.7 μ F	C 618	178-1022-78	1000pF	IC 902	051-1014-05	TA7291F
C 403	173-2221-11	2200pF	C 619	042-0559-00	5.5V0.1 μ F	IC 903	051-1014-05	TA7291F
C 404	173-2221-11	2200pF	C 620	178-4732-78	0.047 μ F	L 1	010-2230-54	0.33 μ H
C 405	042-0537-00	50V0.56 μ F	C 621	183-1063-31	16V10 μ F	L 2	010-4007-00	
C 406	183-3343-61	50V0.33 μ F	C 622	178-1032-78	0.01 μ F	L 3	010-2230-64	2.2 μ H
C 407	183-1063-31	16V10 μ F	C 624	178-2212-78	220pF	L 4	010-2230-76	22 μ H
C 408	183-4753-51	35V4.7 μ F	C 625	178-1022-78	1000pF	L 5	010-2230-76	22 μ H
C 409	173-2221-11	2200pF	C 626	178-5622-78	5600pF	L 6	010-2230-88	220 μ H
C 410	173-2221-11	2200pF	C 627	178-2212-78	220pF	L 7	010-2230-56	0.047 μ H
C 411	042-0537-00	50V0.56 μ F	C 628	176-1011-00	100pF CH	L 201	010-2230-76	22 μ H
C 412	183-3343-61	50V0.33 μ F	C 629	178-1022-78	1000pF	L 401	010-2230-88	220 μ H
C 451	183-2263-31	16V22 μ F	C 630	178-1022-78	1000pF	L 601	010-2230-64	2.2 μ H
C 452	183-1053-61	50V1 μ F	C 902	178-1042-78	0.1 μ F	L 604	010-2198-56	2.2 μ H
C 453	183-1063-31	16V10 μ F	C 903	183-4763-31	16V47 μ F	L 605	010-2198-56	2.2 μ H
C 454	183-1063-31	16V10 μ F	C 904	183-1063-31	16V10 μ F	L 606	010-2198-56	2.2 μ H
C 455	183-4763-31	16V47 μ F	C 905	178-1042-78	0.1 μ F	L 901	010-2230-64	2.2 μ H
C 456	178-1522-78	1500pF	C 906	183-1063-31	16V10 μ F	PL 601	017-0433-07	14V 40mA
C 457	183-1073-21	10V100 μ F	C 907	183-1063-31	16V10 μ F	Q 1	125-2004-03	RN1403
C 458	183-1073-21	10V100 μ F	C 908	178-1042-78	0.1 μ F	Q 2	103-1306-00	2SD1306
C 459	178-1522-78	1500pF	C 909	042-0458-06	10V 22 μ F	Q 3	125-0002-03	RN2403
C 460	183-1063-31	16V10 μ F	C 910	176-1011-00	100pF CH			
C 461	183-1063-31	16V10 μ F	C 911	178-1022-78	1000pF			

REF No.	PART No.	DESCRIPTION	REF No.	PART No.	DESCRIPTION	REF No.	PART No.	DESCRIPTION
Q 5	100-1162-00	2SA1162	R 202	111-1591-91	1/4WS 1.5Ω	R 516	117-1041-10	1/10W 100kΩ
Q 6	100-1298-00	2SA1298	R 203	111-1591-91	1/4WS 1.5Ω	R 517	117-1241-10	1/10W 120kΩ
Q 9	125-2004-02	RN1402	R 204	117-1031-10	1/10W 10kΩ	R 518	117-6821-10	1/10W 6.8kΩ
Q 12	108-0536-00	2SK536	R 205	117-1031-10	1/10W 10kΩ	R 519	117-3331-10	1/10W 33kΩ
Q 201	100-1162-00	2SA1162	R 206	117-2221-10	1/10W 2.2kΩ	R 520	117-4721-10	1/10W 4.7kΩ
Q 202	101-1237-00	2SB1237	R 207	117-4721-10	1/10W 4.7kΩ	R 521	117-1041-10	1/10W 100kΩ
Q 203	102-2712-00	2SC2712	R 208	117-1031-10	1/10W 10kΩ	R 522	117-1241-10	1/10W 120kΩ
Q 204	125-2004-03	RN1403	R 209	111-1221-91	1/4WS 1.2kΩ	R 523	117-1021-10	1/10W 1kΩ
Q 205	125-2004-03	RN1403	R 210	117-2231-10	1/10W 22kΩ	R 524	117-1221-10	1/10W 1.2kΩ
Q 206	102-2712-00	2SC2712	R 211	117-4721-10	1/10W 4.7kΩ	R 525	117-4731-10	1/10W 47kΩ
Q 207	101-0941-00	2SB941	R 212	117-1831-10	1/10W 18kΩ	R 526	117-4731-10	1/10W 47kΩ
Q 209	101-1237-00	2SB1237	R 213	111-1801-91	1/4WS 18Ω	R 601	117-4721-10	1/10W 4.7kΩ
Q 210	125-2004-03	RN1403	R 214	111-1591-91	1/4WS 1.5Ω	R 602	117-1021-10	1/10W 1kΩ
Q 251	103-2012-00	2SD2012	R 215	117-2231-10	1/10W 22kΩ	R 604	117-1031-10	1/10W 10kΩ
Q 252	108-0241-50	2SK241Y.GR	R 216	117-2231-10	1/10W 22kΩ	R 605	117-4721-10	1/10W 4.7kΩ
Q 253	125-0002-06	RN2406	R 217	117-8221-10	1/10W 8.2kΩ	R 606	117-1021-10	1/10W 1kΩ
Q 254	125-2004-03	RN1403	R 219	111-4700-91	1/4WS 47Ω	R 607	117-4721-10	1/10W 4.7kΩ
Q 451	102-2712-00	2SC2712	R 220	117-1041-10	1/10W 100kΩ	R 608	117-1031-10	1/10W 10kΩ
Q 453	100-1162-00	2SA1162	R 221	117-4721-10	1/10W 4.7kΩ	R 609	117-1021-10	1/10W 1kΩ
Q 454	125-4001-00	XN1504	R 222	111-1221-91	1/4WS 1.2kΩ	R 610	117-1021-10	1/10W 1kΩ
Q 455	125-4001-00	XN1504	R 401	117-1031-10	1/10W 10kΩ	R 611	117-5621-10	1/10W 5.6kΩ
Q 456	125-4001-00	XN1504	R 402	117-1031-10	1/10W 10kΩ	R 612	117-4731-10	1/10W 47kΩ
Q 460	102-2712-00	2SC2712	R 403	117-1031-10	1/10W 10kΩ	R 613	117-1031-10	1/10W 10kΩ
Q 601	125-2004-03	RN1403	R 404	117-2431-10	1/10W 24kΩ	R 614	117-1031-10	1/10W 10kΩ
Q 602	102-2712-00	2SC2712	R 405	117-5611-10	1/10W 560Ω	R 615	117-1031-10	1/10W 10kΩ
Q 603	102-2712-00	2SC2712	R 406	117-1021-10	1/10W 1kΩ	R 616	117-2731-10	1/10W 27kΩ
Q 604	100-1162-00	2SA1162	R 407	117-2431-10	1/10W 24kΩ	R 617	117-1031-10	1/10W 10kΩ
Q 605	100-1298-00	2SA1298	R 408	117-5611-10	1/10W 560Ω	R 618	117-4731-10	1/10W 47kΩ
Q 606	125-2004-03	RN1403	R 409	117-2731-10	1/10W 27kΩ	R 619	117-1041-10	1/10W 100kΩ
Q 607	100-1298-00	2SA1298	R 451	117-1031-10	1/10W 10kΩ	R 621	117-1021-10	1/10W 1kΩ
Q 901	103-1802-60	2SD1802FA-R.S.T	R 452	111-1021-91	1/4WS 1kΩ	R 622	117-1031-10	1/10W 10kΩ
Q 902	125-0002-06	RN2406	R 453	117-1021-10	1/10W 1kΩ	R 623	117-1841-10	1/10W 180kΩ
Q 903	125-2004-02	RN1402	R 454	117-1031-10	1/10W 10kΩ	R 624	117-8231-10	1/10W 82kΩ
Q 904	100-1428-00	2SA1428	R 455	117-3321-10	1/10W 3.3kΩ	R 625	117-4321-10	1/10W 4.3kΩ
Q 905	125-2004-06	RN1406	R 456	117-3631-10	1/10W 36kΩ	R 626	117-4731-10	1/10W 47kΩ
Q 906	103-1802-60	2SD1802FA-R.S.T	R 457	117-2431-10	1/10W 24kΩ	R 627	117-4731-10	1/10W 47kΩ
Q 907	125-0002-06	RN2406	R 458	117-3631-10	1/10W 36kΩ	R 628	117-1541-10	1/10W 150kΩ
Q 908	125-2004-03	RN1403	R 459	117-2431-10	1/10W 24kΩ	R 629	117-4711-10	1/10W 470Ω
R 2	117-5621-10	1/10W 5.6kΩ	R 460	117-3631-10	1/10W 36kΩ	R 630	117-1031-10	1/10W 10kΩ
R 3	117-2221-10	1/10W 2.2kΩ	R 461	117-2431-10	1/10W 24kΩ	R 631	111-1221-91	1/4WS 1.2kΩ
R 4	117-8221-10	1/10W 8.2kΩ	R 462	117-3631-10	1/10W 36kΩ	R 637	117-4721-10	1/10W 4.7kΩ
R 6	117-1041-10	1/10W 100kΩ	R 463	117-2431-10	1/10W 24kΩ	R 638	117-2231-10	1/10W 22kΩ
R 8	117-1021-10	1/10W 1kΩ	R 464	117-2231-10	1/10W 22kΩ	R 639	117-1041-10	1/10W 100kΩ
R 9	117-2221-10	1/10W 2.2kΩ	R 465	117-3311-10	1/10W 330Ω	R 640	117-2231-10	1/10W 22kΩ
R 10	117-1031-10	1/10W 10kΩ	R 466	117-2231-10	1/10W 22kΩ	R 641	117-1031-10	1/10W 10kΩ
R 11	117-1031-10	1/10W 10kΩ	R 467	117-3311-10	1/10W 330Ω	R 642	117-4721-10	1/10W 4.7kΩ
R 12	117-1021-10	1/10W 1kΩ	R 468	117-2231-10	1/10W 22kΩ	R 643	117-1031-10	1/10W 10kΩ
R 13	117-1021-10	1/10W 1kΩ	R 469	117-3311-10	1/10W 330Ω	R 644	117-4731-10	1/10W 47kΩ
R 15	117-1031-10	1/10W 10kΩ	R 470	117-2231-10	1/10W 22kΩ	R 645	117-1011-10	1/10W 100Ω
R 16	117-1231-10	1/10W 12kΩ	R 471	117-3311-10	1/10W 330Ω	R 901	117-1031-10	1/10W 10kΩ
R 21	117-3321-10	1/10W 3.3kΩ	R 472	117-2231-10	1/10W 22kΩ	R 902	117-1031-10	1/10W 10kΩ
R 22	117-2731-10	1/10W 27kΩ	R 473	117-3311-10	1/10W 330Ω	R 903	117-1031-10	1/10W 10kΩ
R 24	117-1041-10	1/10W 100kΩ	R 474	117-2231-10	1/10W 22kΩ	R 904	117-1031-10	1/10W 10kΩ
R 29	117-1231-10	1/10W 12kΩ	R 475	117-3311-10	1/10W 330Ω	R 905	117-1031-10	1/10W 10kΩ
R 30	117-1021-10	1/10W 1kΩ	R 476	117-1021-10	1/10W 1kΩ	R 906	117-2231-10	1/10W 22kΩ
R 32	117-1041-10	1/10W 100kΩ	R 477	117-1021-10	1/10W 1kΩ	R 907	117-1041-10	1/10W 100kΩ
R 33	111-3311-91	1/4WS 330Ω	R 478	117-1021-10	1/10W 1kΩ	R 908	117-1031-10	1/10W 10kΩ
R 34	111-1031-91	1/4WS 10kΩ	R 479	117-4721-10	1/10W 4.7kΩ	R 909	111-2711-91	1/4WS 270Ω
R 35	117-1021-10	1/10W 1kΩ	R 480	117-4721-10	1/10W 4.7kΩ	R 910	117-1031-10	1/10W 10kΩ
R 36	117-2221-10	1/10W 2.2kΩ	R 481	117-1021-10	1/10W 1kΩ	R 911	111-1221-91	1/4WS 1.2kΩ
R 37	117-1021-10	1/10W 1kΩ	R 501	117-6831-10	1/10W 68kΩ	R 912	111-1221-91	1/4WS 1.2kΩ
R 38	117-1021-10	1/10W 1kΩ	R 503	117-6831-10	1/10W 68kΩ	R 913	117-1031-10	1/10W 10kΩ
R 39	117-1021-10	1/10W 1kΩ	R 504	117-1031-10	1/10W 10kΩ	R 914	117-1031-10	1/10W 10kΩ
R 40	117-1021-10	1/10W 1kΩ	R 506	117-1041-10	1/10W 100kΩ	R 915	117-4731-10	1/10W 47kΩ
R 41	117-1031-10	1/10W 10kΩ	R 507	117-1241-10	1/10W 120kΩ	R 916	111-3311-91	1/4WS 330Ω
R 42	117-5631-10	1/10W 56kΩ	R 508	117-6821-10	1/10W 6.8kΩ	R 917	117-1041-10	1/10W 100kΩ
R 43	117-2211-10	1/10W 220Ω	R 509	117-3331-10	1/10W 33kΩ	R 918	117-1041-10	1/10W 100kΩ
R 44	117-1041-10	1/10W 100kΩ	R 510	117-4721-10	1/10W 4.7kΩ	R 919	117-1041-10	1/10W 100kΩ
R 45	117-1041-10	1/10W 100kΩ	R 511	117-6831-10	1/10W 68kΩ	R 924	117-1041-10	1/10W 100kΩ
R 46	117-1041-10	1/10W 100kΩ	R 513	117-6831-10	1/10W 68kΩ	S 601	013-6100-00	
R 201	111-1591-91	1/4WS 1.5Ω	R 514	117-1031-10	1/10W 10kΩ	S 903	013-7103-00	

REF No.	PART No.	DESCRIPTION
SUP1	060-0122-10	DSP-201M-S00B
T 201	009-9008-80	
VR 1	012-4863-13	470kΩ
VR 2	012-4863-06	10kΩ

REF No.	PART No.	DESCRIPTION
VR 401	012-5123-06	10kΩ
VR 402	012-5123-06	10kΩ
X 1	061-3013-00	4.33MHz
X 2	061-1066-00	7.2MHz

REF No.	PART No.	DESCRIPTION
X 601	060-0318-00	KBR-4.5MWS
X 901	060-1009-00	4.91MHz

Switch PWB section

REF No.	PART No.	DESCRIPTION
C 701	178-4732-78	0.047 μF
C 702	178-4732-78	0.047 μF
C 703	178-4732-78	0.047 μF
C 704	176-1011-00	100pF CH
C 705	178-4732-78	0.047 μF
C 706	178-4732-78	0.047 μF
C 707	178-4732-78	0.047 μF
C 708	178-4732-78	0.047 μF
C 709	178-8212-78	820pF
C 710	042-0403-01	16V10 μF TAN
C 711	178-1042-78	0.1 μF
C 712	176-1011-00	100pF CH
C 713	176-1011-00	100pF CH
C 714	176-1011-00	100pF CH
C 715	176-1011-00	100pF CH
C 716	176-1011-00	100pF CH
C 717	042-0403-01	16V10 μF TAN
D 701	001-0516-00	MA111
D 702	001-7030-00	NSPB310A
D 703	001-7030-00	NSPB310A
D 704	001-7030-00	NSPB310A
D 705	001-0516-00	MA111

REF No.	PART No.	DESCRIPTION
IC 701	051-6013-00	LC75854W
IC 702	051-6022-00	LC75824W
IR 701	060-4008-00	
PL 701	017-0444-00	14V 50mA
PL 702	017-0444-00	14V 50mA
PL 703	017-0444-00	14V 50mA
PL 704	017-0444-00	14V 50mA
Q 701	060-0150-00	PN268-R
R 701	117-4341-10	1/10W 430kΩ
R 702	117-1031-10	1/10W 10kΩ
R 703	117-1031-10	1/10W 10kΩ
R 704	117-8231-10	1/10W 82kΩ
R 705	117-1011-10	1/10W 100Ω
R 706	032-0092-80	1/10W 330Ω
R 707	032-0092-80	1/10W 330Ω
R 708	032-0092-80	1/10W 330Ω
R 713	117-1241-10	1/10W 120kΩ
R 714	117-3921-10	1/10W 3.9kΩ
R 715	117-1031-10	1/10W 10kΩ
R 716	117-2241-10	1/10W 220kΩ
R 724	032-0092-80	1/10W 330Ω
R 725	032-0092-80	1/10W 330Ω

REF No.	PART No.	DESCRIPTION
R 726	032-0092-80	1/10W 330Ω
S 702	013-6302-01	
S 703	013-6302-01	
S 704	013-6302-01	
S 705	013-6302-01	
S 706	013-6302-01	
S 707	013-6302-01	
S 708	013-6302-01	
S 709	013-6302-01	
S 710	013-6302-01	
S 711	013-6302-01	
S 712	013-6302-01	
S 713	013-6302-01	
S 714	013-6302-01	
S 715	013-6302-01	
S 716	013-6006-00	
S 721	013-6302-01	
S 722	013-6302-01	
S 723	013-6302-01	
S 726	013-6302-01	
S 727	013-6302-01	

Motor PWB section

REF No.	PART No.	DESCRIPTION
C 913	176-2221-00	2200pF
C 914	176-2221-00	2200pF

REF No.	PART No.	DESCRIPTION
S 901	013-3757-00	

REF No.	PART No.	DESCRIPTION
S 901	013-3757-00	

Jog switch PWB section

REF No.	PART No.	DESCRIPTION
S 724	013-9901-00	

Tape mechanism section

REF No.	PART No.	DESCRIPTION
C 1	175-3311-00	330pF CH
C 2	175-3311-00	330pF CH
C 3	175-3311-00	330pF CH
C 4	175-3311-00	330pF CH
C 5	183-4763-11	6.3V47 μF
C 6	042-0552-02	10V68 μF
C 7	042-0552-02	10V68 μF
C 8	173-1231-10	0.012 μF
C 9	173-1231-10	0.012 μF
C 10	183-4753-51	35V4.7 μF
C 11	183-1043-61	50V0.1 μF
C 12	175-5611-00	560pF CH
C 13	183-4743-61	50V0.47 μF

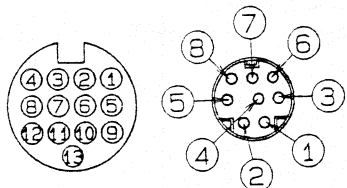
REF No.	PART No.	DESCRIPTION
C 14	183-2263-31	16V22 μF
C 15	183-4753-51	35V4.7 μF
C 16	183-4753-51	35V4.7 μF
IC 1	051-1546-10	BA3430S
IC 2	051-1776-00	NJL5801K
R 1	111-1241-91	1/4WS 120kΩ
R 2	111-1241-91	1/4WS 120kΩ
R 3	111-1241-91	1/4WS 120kΩ
R 4	111-1241-91	1/4WS 120kΩ
R 5	116-1011-10	1/8W 100Ω
R 6	116-1011-10	1/8W 100Ω
R 7	117-3341-10	1/10W 330kΩ
R 8	117-1131-10	1/10W 11kΩ

REF No.	PART No.	DESCRIPTION
R 9	117-1531-10	1/10W 15kΩ
R 10	117-1531-10	1/10W 15kΩ
R 11	117-1131-10	1/10W 11kΩ
R 12	117-3341-10	1/10W 330kΩ
R 13	117-1811-10	1/10W 180Ω
R 14	117-8211-10	1/10W 820Ω
R 15	116-2231-10	1/8W 22kΩ
R 16	117-1031-10	1/10W 10kΩ
R 17	117-1031-10	1/10W 10kΩ
R 18	111-5611-91	1/4WS 560Ω
SW 1	013-3906-00	3PPB51
SW 2	013-3953-01	
SW 3	013-3951-10	

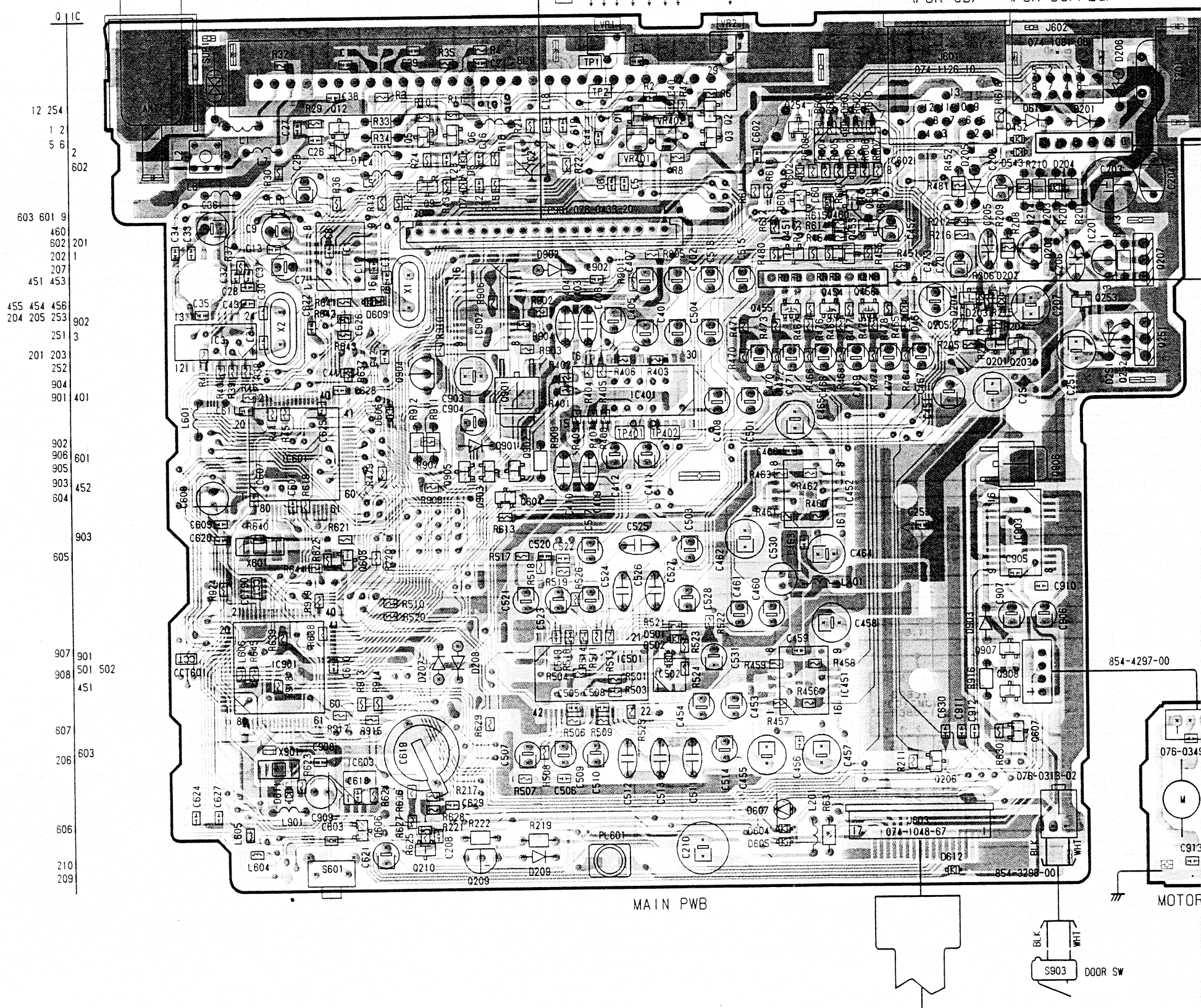
■ PRINTED WIRING BOARD

No.	Description
1	SO/SI
2	SCK
3	NC
4	SRQ
5	NC
6	S-GND
7	L-CH IN
8	R-CH IN
9	NC
10	BACK UP
11	ACC CONTROL
12	GND
13	NC

Pin No.	Color	Description
1	WHT	TX
2	GRY	RX
3	GRN	REQ
4	BLU	+B REM
5	BRN	MUTE
6	RED	BACK UP
7	YEL	BACK UP
8	BLK	GND

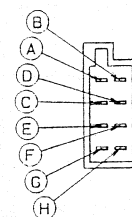


13PIN DIN 8PIN MINI DIN
(FOR CD) (FOR DSP/EQ)



ISO CONNECTOR CABLE
854-6319-00

Pin No.	Color	Description
A		NC
B		NC
C	YEL	BACK UP
D		NC
E	ORG/WHT	ILLUMI
F	BLU/WHT	AUTO ANT
G	BLK	GND
H	RED	ACC



FUSE (3A)
120-0030-00

BRN
PHONE MUTE

RED
RED

BLU/WHT

BLK

RCA PIN CORD
855-5403-00

GRY
RED
FRONT/RIGHT

WHT
RED
FRONT/LEFT

BLK
RED
REAR/RIGHT

WHT
RED
REAR/LEFT

PUR
RED
NON FADER/RIGHT

WHT
RED
NON FADER/LEFT

FLEXIBLE PWB

CONNECTOR PWB

JOG SWITCH PWB

SWITCH PWB

IC 1 Q

701

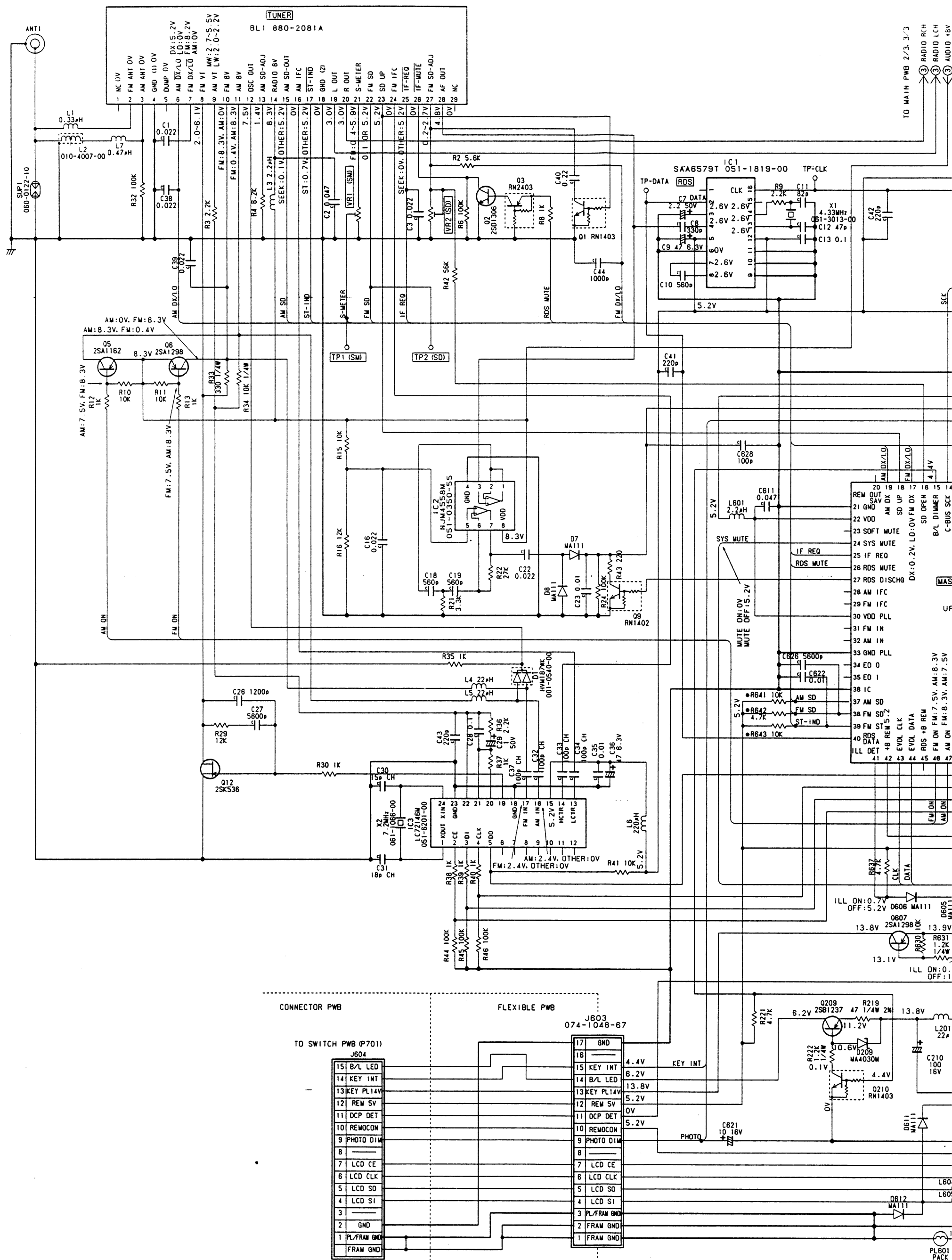
701

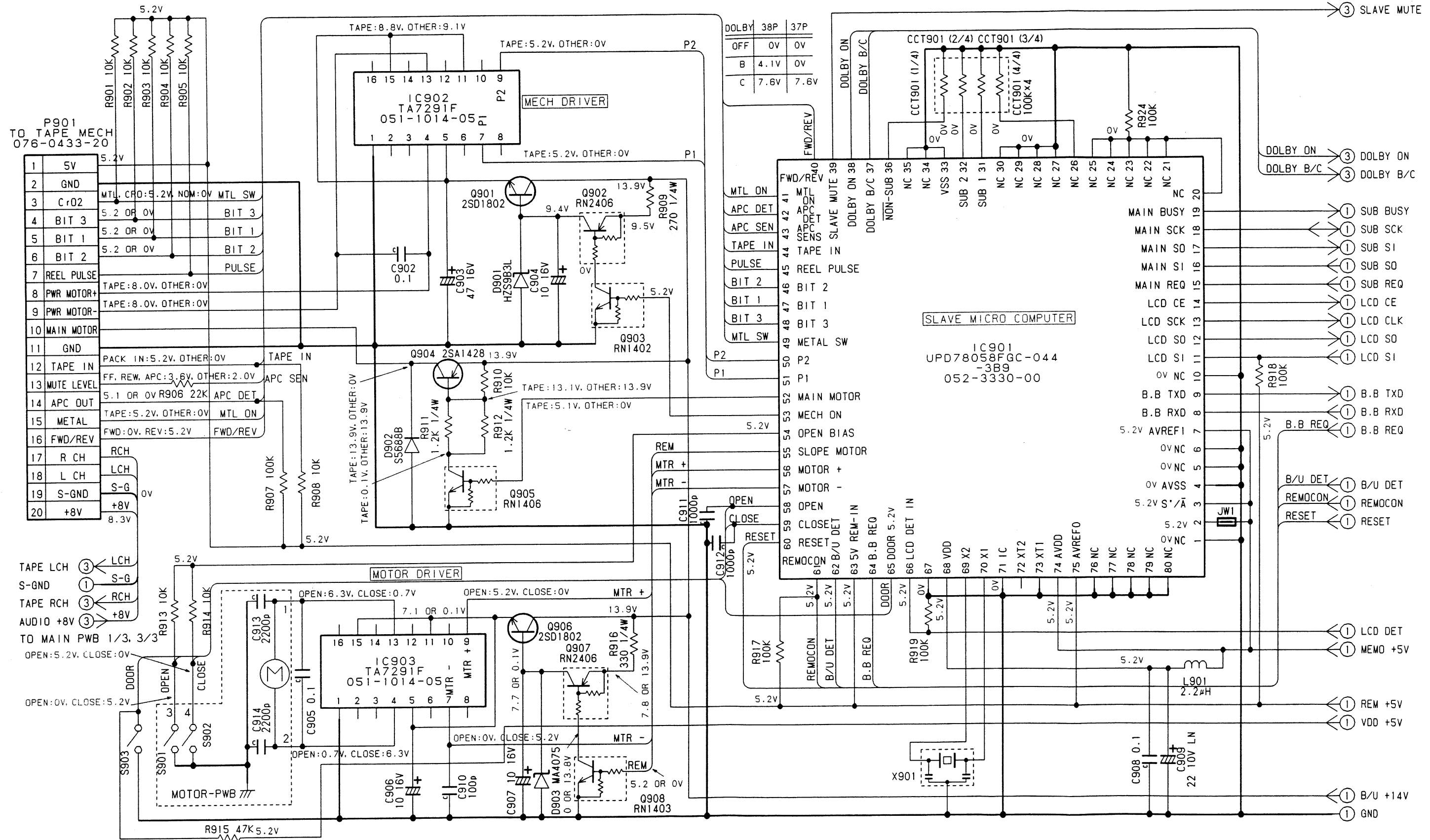
702

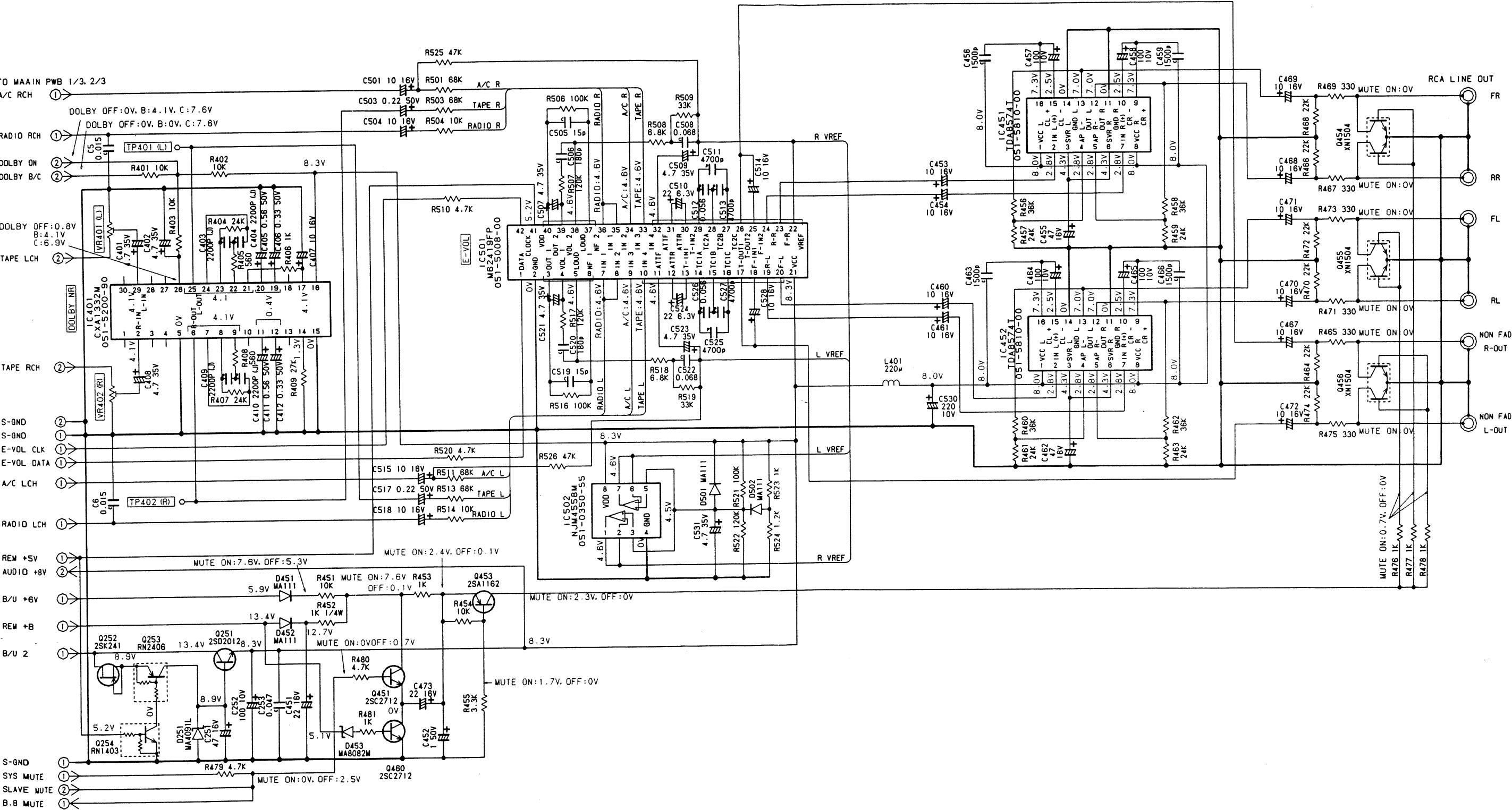
■ CIRCUIT DIAGRAM

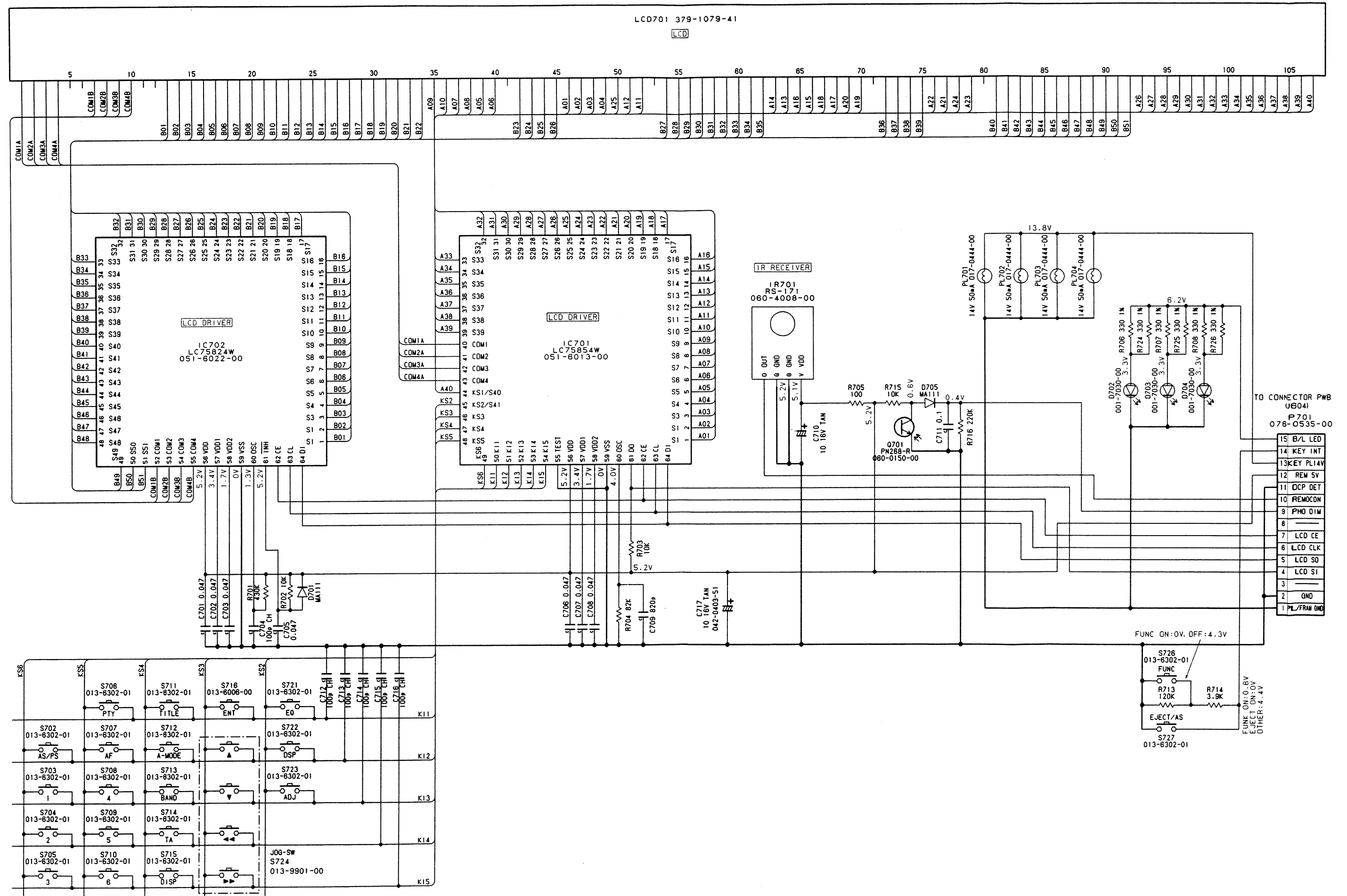
Main PWB 1/3 / Flexible PWB / Connector PWB section

Main PWB 1/3 / Flexible PWB / Connector PWB section



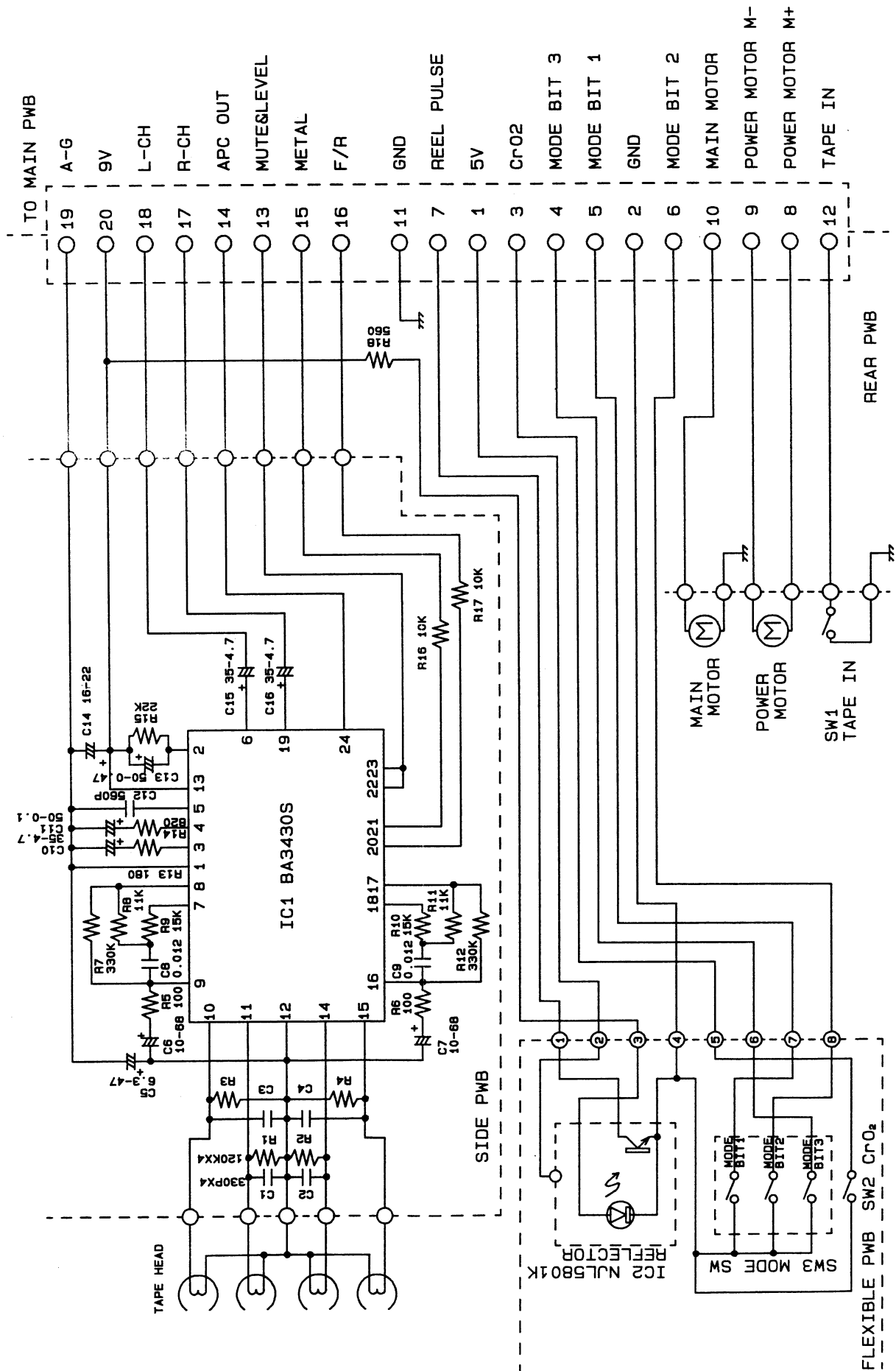






CIRCUIT DIAGRAM

Tape mechanism section



PRINTED WIRING BOARD

Tape mechanism section

